FIRST & FINAL BILL									
Division		Byatarayanapura							
Sub Division		Kodigehalli							
Head of Account		P-3333							
Estimated cost		45.00 Lakhs							
Name of the Agency		Sri:Aswathnarayana							
Job Number		008-18-000011							
Work order no		BBMP/EE/BTP/WO/183/19-20 Date:03-01-2019							
Date of Commencement									
Name of work: Improvements to Roads drains and culverts at Angala parameshwari temple and surroundings at Kodigehalli Ward No.8									
	Pre Measurement Recorded on								
	Item No	1							
	Item Name	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications							
Sl No	**Description of work**		**No**	**Dimensions**			**Quantity**	**Unit**	**Remarks**
				L	**B**	**D**			
	Desilting								
	Angalaparmeshwari Temple road								
	Kodigehalli main road to SWD	LHS	1	30.00	0.50	0.60	9.00		
			1	30.00	0.50	0.60	9.00		
			1	30.00	0.50	0.60	9.00		
			1	30.00	0.50	0.60	9.00		
			1	30.00	0.50	0.60	9.00		
			1	30.00	0.50	0.60	9.00		
			1	30.00	0.50	0.60	9.00		
			1	30.00	0.50	0.60	9.00		
	Cross Road		1	30.00	0.50	0.60	9.00		
			1	15.00	0.50	0.60	4.50		
		RHS	1	30.00	0.50	0.60	9.00		
			1	30.00	0.50	0.60	9.00		
			1	30.00	0.50	0.60	9.00		
			1	30.00	0.50	0.60	9.00		
			1	30.00	0.50	0.60	9.00		
			1	30.00	0.50	0.60	9.00		
			1	30.00	0.50	0.60	9.00		
			1	30.00	0.50	0.60	9.00		
			1	30.00	0.50	0.60	9.00		
			1	15.00	0.50	0.60	4.50		
	SWD to Muneshwara main	LHS	1	30.00	1.10	1.20	39.60		
			1	30.00	1.10	1.20	39.60		
			1	30.00	1.10	1.20	39.60		

289.80

B/F 289.80

Sl No	Description of work		No	Dimensions			Quantity	Unit	Remarks
				L	B	D			
			1	20.00	1.10	1.20	26.40		
		RHS	1	30.00	1.10	1.20	39.60		
			1	30.00	1.10	1.20	39.60		
	Kodigehalli Main Road	RHS	1	17.50	1.10	1.20	23.10		
		LHS	1	17.00	1.10	1.20	22.44		
	Culverts	C1	1	6.40	2.10	1.35	18.14		
		C2	1	6.60	2.10	1.35	18.71		
		C3	1	6.80	2.10	1.35	19.28		
		C4	1	6.70	2.10	1.35	18.99		
	Cross road		1	30.00	0.50	0.60	9.00		
			1	6.00	0.50	0.60	1.80		
						Total	526.87	Cum	
					Qty ltd to		526.74	Cum	

Assistant Engineer

Assistant Executive Engineer

Assistant Engineer
Kodigehalli Division
Yelahanka Zone, B.B.M.P.
Bangalore.

Assistant Executive Engineer
Kodigehalli Division
Yelahanka Zone, B.B.M.P.
Bangalore.

Name of work: Improvements to Roads drains and culverts at Angala parameshwari temple and surroundings at Kodigehalli Ward No.8

	Pre Measurement Recorded on								
	Item No	2							
	Item Name	Removing & Refixing stone slabs of drains and Pointing							
Sl No	Description of work		No	Dimensions			Quantity	Unit	Remarks
				L	B	D			
	Kodigehalli main road to SWD	LHS	1	10.20	1.35		13.77		
			1	15.60	1.35		21.06		
			1	12.80	1.35		17.28		
			1	17.90	1.35		24.17		
			1	14.50	1.35		19.58		
			1	19.60	1.35		26.46		
			1	15.80	1.35		21.33		
			1	14.20	1.35		19.17		
			1	14.60	1.35		19.71		
			1	17.80	1.35		24.03		
		RHS	1	8.60	1.35		11.61		
			1	19.00	1.35		25.65		
			1	4.70	1.35		6.35		
			1	8.50	1.35		11.48		
			1	15.80	1.35		21.33		
			1	10.50	1.35		14.18		
			1	8.60	1.35		11.61		
			1	5.50	1.35		7.43		
			1	7.80	1.35		10.53		
			1	10.50	1.35		14.18		
	Cross road		1	9.50	1.80		17.10		
			1	6.00	1.80		10.80		
						Total	368.78	Sqm	
					Qty ltd to		368.55	Sqm	

Assistant Engineer

Assistant Executive Engineer

Name of work: Improvements to Roads drains and culverts at Angala parameshwari temple and surroundings at Kodigehalli Ward No.8

	Pre Measurement Recorded on								
	Item No	3							
	Item Name	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.							
Sl No	Description of work		No	Dimensions			Quantity	Unit	Remarks
				L	B	D			
	Angalaparmeshwari Temple road								
	Kodigehalli main road to SWD	LHS	1	30.00	1.35		40.50		
			1	30.00	1.35		40.50		
			1	30.00	1.35		40.50		
			1	30.00	1.35		40.50		
			1	30.00	1.35		40.50		
			1	30.00	1.35		40.50		
			1	30.00	1.35		40.50		
			1	30.00	1.35		40.50		
			1	30.00	1.35		40.50		
			1	15.00	1.35		20.25		
		RHS	1	30.00	1.35		40.50		
			1	16.80	1.35		22.68		
	Cross road		1	30.00	1.35		40.50		
			1	6.00	1.35		8.10		
							496.53	Sqm	
	Deduct available refixing qty vide item No.2						368.55	Sqm	
							127.98	Sqm	
					Qty ltd to		127.17	Sqm	

5/12/19

Assistant Engineer

Assistant Executive Engineer.
Kod... Division,
Yelahanka ...e, B.B.M.P.,
Bangalore.

Name of work: Improvements to Roads drains and culverts at Angala parameshwari temple and surroundings at Kodigehalli Ward No.8

	Pre Measurement Recorded on								
	Item No	4							
	Item Name	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2.							
Sl No	Description of work		No	Dimensions L	B	D	Quantity	Unit	Remarks
	Flagging course bed								
	Kodigehalli main road to SWD		2	30.00	0.35	0.12	2.52		
			2	30.00	0.35	0.12	2.52		
			2	30.00	0.35	0.12	2.52		
			2	30.00	0.35	0.12	2.52		
			2	30.00	0.35	0.12	2.52		
			2	30.00	0.35	0.12	2.52		
			2	30.00	0.35	0.12	2.52		
			2	30.00	0.35	0.12	2.52		
	Cross Road		2	30.00	0.35	0.12	2.52		
			2	15.00	0.35	0.15	1.58		
	RCC drain bed								
	SWD to Muneshwara main road	LHS	1	30.00	1.10	0.15	4.95		
			1	30.00	1.10	0.15	4.95		
			1	30.00	1.10	0.15	4.95		
			1	20.00	1.10	0.15	3.30		
		RHS	1	30.00	1.10	0.15	4.95		
			1	30.00	1.10	0.15	4.95		
	Kodigehalli Main Road	RHS	1	17.50	1.10	0.15	2.89		
		LHS	1	17.00	1.10	0.15	2.81		
	Cross road		1	30.00	4.00	0.15	18.00		
			1	6.00	4.00	0.15	3.60		
	Culverts bed	C1	1	6.40	2.10	0.15	2.02		
		C2	1	6.60	2.10	0.15	2.08		
		C3	1	6.80	2.10	0.15	2.14		
		C4	1	6.70	2.10	0.15	2.11		
						Total	87.95	Cum	
					Qty ltd to		85.77	Cum	

Assistant Engineer

Assistant Executive Engineer
Assistant Executive Engineer,
Kodigehalli Division,
Yelahanka, B.B.M.P.,
Bangalore.

Name of work: Improvements to Roads drains and culverts at Angala parameshwari temple and surroundings at Kodigehalli Ward No.8									
	Pre Measurement Recorded on								
	Item No	5							
	Item Name	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13							
Sl No	Description of work		No	Dimensions			Quantity	Unit	Remarks
				L	B	D			
	Angalaparmeshwari Temple road								
	Culverts	C1	2	6.40	0.60	0.85	6.53		
		C2	2	6.60	0.60	0.85	6.73		
		C3	2	6.80	0.60	0.85	6.94		
		C4	2	6.70	0.60	0.85	6.83		
						Total	27.03	Cum	
						Qty ltd to	26.93	Cum	

Assistant Engineer

Assistant Executive Engineer.
Yelahanka Sub Division,
B.B.M.P.,
Bangalore.

Name of work: Improvements to Roads drains and culverts at Angala parameshwari temple and surroundings at Kodigehalli Ward No.8

	Pre Measurement Recorded on								
	Item No	6							
	Item Name	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4							
Sl No	Description of work		No	Dimensions			Quantity	Unit	Remarks
				L	B	D			
	Flagging course								
	Kodigehalli main road to SWD	Road side	2	30.00		0.20	12.00		
			2	30.00		0.20	12.00		
			2	30.00		0.20	12.00		
			2	30.00		0.20	12.00		
			2	30.00		0.20	12.00		
			2	30.00		0.20	12.00		
			2	30.00		0.20	12.00		
			2	30.00		0.20	12.00		
	Cross Road		2	30.00		0.20	12.00		
			2	15.00		0.20	6.00		
						Total	114.00	Sqm	
						Qty ltd to	114.00	Sqm	

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name of work: Improvements to Roads drains and culverts at Angala parameshwari temple and surroundings at Kodigehalli Ward No.8

	Pre Measurement Recorded on								
	Item No	7							
	Item Name	KSRB 5-11 : Providing and constructing non load bearing wall with solid concrete blocks of size 400x100x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4							
Sl No	Description of work		No	Dimensions			Quantity	Unit	Remarks
				L	B	D			
	Kodigehalli main road to SWD	Wall side	2	30.00		0.20	12.00		
			2	30.00		0.20	12.00		
			2	30.00		0.20	12.00		
			2	30.00		0.20	12.00		
			2	30.00		0.20	12.00		
			2	30.00		0.20	12.00		
			2	30.00		0.20	12.00		
			2	30.00		0.20	12.00		
	Cross Road		2	30.00		0.20	12.00		
			2	15.00		0.20	6.00		
						Total	114.00	Sqm	
					Qty ltd to		114.00	Sqm	

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name of work: Improvements to Roads drains and culverts at Angala parameshwari temple and surroundings at Kodigehalli Ward No.8									
	Pre Measurement Recorded on								
	Item No	8							
	Item Name	KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.							
Sl No	Description of work		No	Dimensions			Quantity	Unit	Remarks
				L	B	D			
	Culverts H/W	C1	2	6.40		0.85	10.88		
		C2	2	6.60		0.85	11.22		
		C3	2	6.80		0.85	11.56		
		C4	2	6.70		0.85	11.39		
						Total	45.05	Sqm	
					Qty ltd to		44.88	Sqm	

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name of work: Improvements to Roads drains and culverts at Angala parameshwari temple and surroundings at Kodigehalli Ward No.8

	Pre Measurement Recorded on									
	Item No	9								
	Item Name	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No. 4.6 of PWD SR 2015-16)								
Sl No	Description of work		No	Dimensions			Quantity	Unit	Remarks	
				L	B	D				
	Coping									
	Kodigehalli main road to SWD	LHS	2	30.00	0.15	0.075	0.68			
			2	30.00	0.15	0.075	0.68			
			2	30.00	0.15	0.075	0.68			
			2	30.00	0.15	0.075	0.68			
			2	30.00	0.15	0.075	0.68			
			2	30.00	0.15	0.075	0.68			
			2	30.00	0.15	0.075	0.68			
			2	30.00	0.15	0.075	0.68			
	Cross road		2	30.00	0.15	0.075	0.68			
			2	15.00	0.15	0.075	0.34			
		RHS	2	30.00	0.15	0.075	0.68			
			2	30.00	0.15	0.075	0.68			
			2	30.00	0.15	0.075	0.68			
			2	30.00	0.15	0.075	0.68			
			2	30.00	0.15	0.075	0.68			
			2	30.00	0.15	0.075	0.68			
			2	30.00	0.15	0.075	0.68			
			2	30.00	0.15	0.075	0.68			
	Kodigehalli Main Road	RHS	2	17.50	0.15	0.075	0.39			
		LHS	2	17.00	0.15	0.075	0.38			
	Culverts	C1	2	6.40	0.60	0.075	0.58			
		C2	2	6.60	0.60	0.075	0.59			
		C3	2	6.80	0.60	0.075	0.61			
		C4	2	6.70	0.60	0.075	0.60			
	Slope concrete									
	Kodigehalli main road to SWD	LHS	1x0.5	30.00	0.30	0.10	0.45			
			1x0.5	30.00	0.30	0.10	0.45			
			1x0.5	30.00	0.30	0.10	0.45			
			1x0.5	30.00	0.30	0.10	0.45			
			1x0.5	30.00	0.30	0.10	0.45			
			1x0.5	30.00	0.30	0.10	0.45			

17.75

Assistant Executive Engineer
Kodigehalli Sub Division,
Yeshwanthpura Zone, B.B.M.P.
Bangalore.

17.75

Sl No	Description of work		No	Dimensions			Quantity	Unit	Remarks
				L	B	D			
			1x0.5	30.00	0.30	0.10	0.45		
			1x0.5	30.00	0.30	0.10	0.45		
			1x0.5	30.00	0.30	0.10	0.45		
			1x0.5	15.00	0.30	0.10	0.23		
		RHS	1x0.5	30.00	0.30	0.10	0.45		
			1x0.5	30.00	0.30	0.10	0.45		
			1x0.5	30.00	0.30	0.10	0.45		
			1x0.5	30.00	0.30	0.10	0.45		
			1x0.5	30.00	0.30	0.10	0.45		
			1x0.5	30.00	0.30	0.10	0.45		
			1x0.5	30.00	0.30	0.10	0.45		
			1x0.5	30.00	0.30	0.10	0.45		
			1x0.5	30.00	0.30	0.10	0.45		
			1x0.5	30.00	0.30	0.10	0.45		
			1x0.5	15.00	0.30	0.10	0.23		
	SWD to Muneshwara main road		1x0.5	30.00	0.30	0.10	0.45		
			1x0.5	30.00	0.30	0.10	0.45		
			1x0.5	30.00	0.30	0.10	0.45		
			1x0.5	20.00	0.35	0.10	0.35		
			1x0.5	30.00	0.35	0.10	0.53		
			1x0.5	30.00	0.35	0.10	0.53		
	Kodigehalli Main Road	RHS	1x0.5	17.50	0.35	0.10	0.31		
		LHS	1x0.5	17.00	0.35	0.10	0.30		
	Culverts	C1	1x0.5	6.40	0.35	0.10	0.11		
		C2	1x0.5	6.60	0.35	0.10	0.12		
		C3	1x0.5	6.80	0.35	0.10	0.12		
		C4	1x0.5	6.70	0.35	0.10	0.12		
	Cross road		1x0.5	30.00	0.35	0.10	0.53		
			1x0.5	6.00	0.35	0.10	0.11		
					10.22	Total	27.97	Cum	
					Qty ltd to		27.84	Cum	

Clerk

25/1/2023

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer,
Division,
B.B.M.P.,
Bangalore.

Name of work: Improvements to Roads drains and culverts at Angala parameshwari temple and surroundings at Kodigehalli Ward No.8

	Pre Measurement Recorded on								
	Item No	10							
	Item Name	Providing laying palin / reinforced cement concrete for Box Drain walls of thicknes 10cm to 20 cm including cenmtering shuttering form work etc. complete as per approved drawiong and design MORTH Specification No. 1500,1700,2200 PCC M 20 Grade upto 0.75 m height using concrete mixture							
Sl No	Description of work		No	Dimensions			Quantity	Unit	Remarks
				L	B	D			
	RCC drain Bottom slab								
	SWD to Muneshwara main road	LHS	1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
			1	20.00	0.90	0.15	2.70		
		RHS	1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
	Kodigehalli Main Road	RHS	1	17.50	0.90	0.15	2.36		
		LHS	1	17.00	0.90	0.15	2.30		
	Side wall								
	SWD to Muneshwara main road	LHS	2	30.00	0.15	0.95	8.55		
			2	30.00	0.15	0.95	8.55		
			2	30.00	0.15	0.95	8.55		
			2	20.00	0.15	0.95	5.70		
		RHS	2	30.00	0.15	0.95	8.55		
			2	30.00	0.15	0.95	8.55		
	Kodigehalli Main Road	RHS	2	17.50	0.15	0.95	4.99		
		LHS	2	17.00	0.15	0.90	4.59		
						Total	85.64	Cum	

9/12/19

30/12/19

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name of work: Improvements to Roads drains and culverts at Angala parameshwari temple and surroundings at Kodigehalli Ward No.8

	Pre Measurement Recorded on									
	Item No		11							
	Item Name		KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 -do- TMT Bars Fe 500 P.17/lt.No.4.46.2 of 2016-17 P W D SR)							
Sl No	Description of work			No	Dimensions			Quantity	Unit	Remarks
					L	B	D			
	Dia of bars	Type of rod		No.of Bars	Length	Total LengthRmtr	Kg/Rmtr	Total in Kg		
	SWD to Muneshwara main road									
	10mm dia main bar spacing at 125mm c/c	U'type Rod	1	242	2.65	641.30	0.62	397.61		
	8mm dia Distribution bar spacing at 100mm c/c	Straight Rod	1	24	30.00	720.00	0.39	280.80		
	10mm dia main bar spacing at 125mm c/c	U'type Rod	1	242	2.65	641.30	0.62	397.61		
	8mm dia Distribution bar spacing at 100mm c/c	Straight Rod	1	26	30.00	780.00	0.39	304.20		
	10mm dia main bar spacing at 125mm c/c	U'type Rod	1	242	2.65	641.30	0.62	397.61		
	8mm dia Distribution bar spacing at 100mm c/c	Straight Rod	1	26	30.00	780.00	0.39	304.20		
	10mm dia main bar spacing at 125mm c/c	U'type Rod	1	162	2.65	429.30	0.62	266.17		
	8mm dia Distribution bar spacing at 100mm c/c	Straight Rod	1	26	20.00	520.00	0.39	202.80		
	10mm dia main bar spacing at 125mm c/c	U'type Rod	1	242	2.65	641.30	0.62	397.61		
	8mm dia Distribution bar spacing at 100mm c/c	Straight Rod	1	26	30.00	780.00	0.39	304.20		
	10mm dia main bar spacing at 125mm c/c	U'type Rod	1	242	2.65	641.30	0.62	397.61		
	8mm dia Distribution bar spacing at 100mm c/c	Straight Rod	1	26	30.00	780.00	0.39	304.20		
	10mm dia main bar spacing at 125mm c/c	U'type Rod	1	141	2.65	373.65	0.62	231.66		
	8mm dia Distribution bar spacing at 100mm c/c	Straight Rod	1	24	17.50	420.00	0.39	163.80		
	10mm dia main bar spacing at 125mm c/c	U'type Rod	1	140	2.65	371.00	0.62	230.02		
	8mm dia Distribution bar spacing at 100mm c/c	Straight Rod	1	24	17.00	408.00	0.39	159.12		
							Total	4739.20	Kgs	
							Total	4.74	Tonnes	
							Qty ltd to	4.72	Tonnes	

7/12/2019

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub-Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name of work: Improvements to Roads drains and culverts at Angala parameshwari temple and surroundings at Kodigehalli Ward No.8

	Measurement Recorded on									
	Item No	12								
	Item Name	Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelley 20mm and down size with steel reinforcement including form work lift charges, curing and concrete finished surfaces on both sides etc., complete and as per drawing and the direction of Engineer in charge(Data Rate)								
Sl No	Description of work			No	Dimensions			Quantity	Unit	Remarks
					L	B	D			
	Angalaparmeshwari Temple									
	Kodigehalli main road to SWD	LHS		1	30.00	0.90		27.00		
				1	30.00	0.90		27.00		
				1	30.00	0.90		27.00		
				1	30.00	0.90		27.00		
				1	30.00	0.90		27.00		
				1	30.00	0.90		27.00		
				1	30.00	0.90		27.00		
				1	30.00	0.90		27.00		
	Cross Road			1	30.00	0.90		27.00		
				1	15.00	0.90		13.50		
		RHS		1	30.00	0.90		27.00		
				1	30.00	0.90		27.00		
				1	30.00	0.90		27.00		
				1	30.00	0.90		27.00		
				1	30.00	0.90		27.00		
				1	30.00	0.90		27.00		
				1	30.00	0.90		27.00		
				1	30.00	0.90		27.00		
				1	30.00	0.90		27.00		
				1	15.00	0.90		13.50		
	SWD to Muneshwara main road	LHS		1	30.00	0.90		27.00		
				1	30.00	0.90		27.00		
				1	30.00	0.90		27.00		
				1	20.00	0.90		18.00		
		RHS		1	30.00	0.90		27.00		
				1	30.00	0.90		27.00		
	Kodigehalli Main Road	RHS		1	17.50	0.90		15.75		
		LHS		1	17.00	0.90		15.30		
							Total	697.05	Sqm	

C/F.C.

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Assistant Engineer

23/1/2020

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Name of work: Improvements to Roads drains and culverts at Angala parameshwari temple and surroundings at Kodigehalli Ward No.8									
	Measurement Recorded on								
	Item No	13							
	Item Name	Providing and fixing RCC precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelley 20mm and down size with steel reinforcement including form work lift charges, curing and concrete finished surfaces on both sides etc., complete and as per drawing and the direction of Engineer in charge(Data Rate)							
Sl No	Description of work		No	Dimensions			Quantity	Unit	Remarks
				L	B	D			
	Angalaparmeshwari Temple road								
	Culverts	C1	1	6.40	1.80		11.52		
		C2	1	6.60	1.80		11.88		
		C3	1	6.80	1.80		12.24		
		C4	1	6.70	1.80		12.06		
						Total	47.70	Sqm	
					Qty ltd to		47.52	Sqm	

Assistant Engineer

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name of work: Improvements to Roads drains and culverts at Angala parameshwari temple and surroundings at Kodigehalli Ward No.8

	Measurement Recorded on								
	Item No	14							
	Item Name	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M20 (at 300Kg per cum coarse aggregate @ 0.64cum and fine aggregate @ 0.43cum)							
Sl No	Description of work		No	Dimensions L	B	D	Quantity	Unit	Remarks
	Cross road		1	15.00	4.00	0.10	6.00		
			1	15.00	4.00	0.10	6.00		
			1	6.00	4.00	0.10	2.40		
						Total	14.40	Cum	
	item:	15							
	Item Name	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.							
Sl No	Description of work		No	Dimensions L	B	D	Quantity	Unit	Remarks
	Cross road		1	15.00	4.00		60.00		
			1	15.00	4.00		60.00		
			1	6.00	4.00		24.00		
						Total	144.00	Sqm	

Assistant Engineer

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

ABSTRACT BILL

Name of work: Improvements to Roads drains and culverts at Angala parameshwari temple and surroundings at Kodigehalli Ward No.8

Tender item no	Description	Unit	previous		Present			Upto date	
			Quantity	Amount	Quantity	Rate	Amount	Quantity	Amount
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications	Cum			526.74	186.00	97973.64	526.74	97973.64
2	Removing & Refixing stone slabs of drains and Pointing	Sqm			368.55	80.00	29484.00	368.55	29484.00
3	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.	Sqm			127.17	665.00	84568.05	127.17	84568.05
4	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2.	Cum			85.77	4500.00	385965.00	85.77	385965.00
5	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13	Cum			26.93	4438.00	119515.34	26.93	119515.34
6	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4	Sqm			114.00	961.00	109554.00	114.00	109554.00
7	KSRB 5-11 : Providing and constructing non load bearing wall with solid concrete blocks of size 400x100x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4	Sqm			114.00	758.00	86412.00	114.00	86412.00

Tender item no	Description	Unit	previous		Present			Upto date	
			Quantity	Amount	Quantity	Rate	Amount	Quantity	Amount
8	KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.	Sqm			44.88	102.00	4577.76	44.88	4577.76
9	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No. 4.6 of PWD SR 2015-16)	Cum			27.84	5767.00	160553.28	27.84	160553.28
10	Providing laying palin / reinforced cement concrete for Box Drain walls of thicknes 10cm to 20 cm including cenmtering shuttering form work etc. complete as per approved drawiong and design MORTH Specification No. 1500,1700,2200 PCC M 20 Grade upto 0.75 m height using concrete mixture	Cum			85.64 85.80	9000.00	770760 772200.00	85.64 85.80	770760 772200.00
11	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 -do- TMT Bars Fe 500 P.17/It.No.4.46.2 of 2016-17 P W D SR)	MT			4.72	64243.00	303226.96	4.72	303226.96
12	Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelley 20mm and down size with steel reinforcement including form work lift charges, curing and concrete finished surfaces on both sides etc., complete and as per drawing and the direction of Engineer in charge(Data Rate)	Sqm			711.00 697.05	1600.00	1115280.00 1137600.00	711.00 697.05	1115280.00 1137600.00
13	Providing and fixing RCC precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelley 20mm and down size with steel reinforcement including form work lift charges, curing and concrete finished surfaces on both sides etc., complete and as per drawing and the direction of Engineer in charge(Data Rate)	Sqm			47.52	5111.00	242874.72	47.52	242874.72

	Tender item no	Description	Unit	previous		Present			Upto date	
				Quantity	Amount	Quantity	Rate	Amount	Quantity	Amount
	14	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M20 (at 300Kg per cum coarse aggregate @ 0.64cum and fine aggregate @ 0.43cum)	Cum			14.40	6217.00	89524.80	14.40	89524.80
	15	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.	Sqm			144.00	95.00	13680.00	144.00	13680.00
							Total	3637709.55		3637709.55
								3613949.55		3613949.55

Assistant Engineer
Ward No.8
10-01-2020

Assistant Executive Engineer
Kodigehalli Sub division

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Executive Engineer
Byatarayanapura Division